## We claim:

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# 20 mm \ \frac{1}{2} \text{ Fig. 1.25} \ \frac{1}{2} \text{ Fig. 1.25} \ \text{ Fig.

- 1. A fuel oil middle distillate composition comprising:
- A) a mineral oil having a cloud point of less than -8°C, a boiling range (90-20%) of less than 120°C, a 95% distillation point of less than 350°C and a difference between CFPP and PP of less than 10°C, and
- B) one or more copolymers present in an amount of 0.001 to 2% by weight, based on the weight of the oil, wherein the copolymers have melt viscosities of from 20 to 10,000 mPas at 140°C and wherein the copolymers consist essentially of a) and b):
  - a) bivalent structural unit (B1) present in an amount of from 85 to 97 mol%,

wherein (B1) is a bivalent structural unit of formula (1)

$$-CH_2-CH_2-$$
 (1)

and

b) one or more bivalent structural units (B2) present in an amount of from 3 to 15 mol% of,

wherein (B2) is either a bivalent structural unit of formula (2):

$$-CH_2-CR^1R^2-$$
 (2)

in which

R<sup>1</sup> is hydrogen or methyl,

R<sup>2</sup> is COOR<sup>3</sup>, OR<sup>3</sup> or OCOR<sup>3</sup>, and

R³ is an alkyl radical having at least 4 an at most 30 carbon atoms,

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or

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## (B2) is a bivalent structural unit of formula (2a)

$$\begin{array}{ccc}
-HC-CH-\\
O & O & (2a)
\end{array}$$

in which

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R<sup>3</sup> is an alkyl radical having at least 4 and at most 30 carbon atoms,

wherein the copolymers comprise up to 5% by weight of further comonomers.

- 2. The fuel oil composition as claimed in claim 1, wherein R¹ is hydrogen.
- 3. The fuel oil composition as claimed in claim 1, wherein  $R^3$  in the bivalent structural units (B2) is  $C_5$ - $C_{24}$ -alkyl or a neoalkyl radical having 7 to 11 carbon atoms.
- 4. The fuel oil composition as claimed in claim 1, wherein  $R^3$  in the bivalent structural units (B2) is  $C_8$ - $C_{18}$ -alkyl or a neoalkyl radical having 8, 9 or 10 carbon atoms.
- 5. The fuel oil composition as claimed in claim 1, wherein the copolymers stated under B) have melt viscosities at 140°C of from 30 to 5000 mPas.
- 20 6. The fuel oil composition as claimed in claim 5, wherein the copolymers stated under B) have melt viscosities at 140°C of from 50 to 2000 mPas.
  - 7. The fuel oil composition as claimed in claim 1, wherein the structural units (B1) and (B2) stated under B) are selected from the group consisting of vinyl ethers, alkylacrylates, alkyl methacrylates or higher olefins having at least 5 carbon atoms.
  - 8. The fuel oil composition as claimed in claim 7, wherein the higher olefins are

 selected from the group consisting of hexene, 4-methylpentene, octene and diisobutylene.

- 9. The fuel oil composition as claimed in claim 1, wherein the mineral oils stated5 under A) have sulfur contents of less than 500 ppm.
  - 10. The fuel oil composition as claimed in claim 9, wherein the mineral oils stated under A) have sulfur contents of less than 300 ppm.
- 10 11. The fuel oil composition as claimed in claim 10, wherein the mineral oils stated under A) have sulfur contents of less than 100 ppm.
  - 12. The fuel oil composition as claimed in claim 1, wherein the mineral oil has a cloud point below -15°C.
  - 13. The fuel oil composition as claimed in claim 1, wherein mineral oil has a boiling range (90-20%) of less than 100°C.
  - 14. The fuel oil composition as claimed in claim 1, wherein mineral oil has a boiling range (90-20%) of less than 80°C.
  - 15. The fuel oil composition as claimed in claim 1, wherein the mineral oil has a 95% distillation point of less than 360°C.
- 16. The fuel oil composition as claimed in claim 1, wherein the composition comprises from 85 to 97 mol% of comonomers (B1) and from 3 to 15 mol% of comonomers (B2).
- 17. The fuel oil composition as claimed in claim 16, wherein the composition comprises from 90 to 96 mol% of comonomers (B1) and from 4 to 10 mol% of comonomers (B2).